

AKFIX PUR PRIMER 90

1-Description

Akfix PUR PRIMER 90 is a transparent, half-elastic, single component polyurethane primer that penetrates to deep. It is a solvent based product. It cures with the moisture of the surface and the air.

2-Properties & Features

- Excellent adhesion to absorbent surfaces
- Highly elastic to meet surface movements
- Easy application (by roller or airless gun).
- Resistant to accumulated water and frost.
- Economical.

3-Fields of Application

- It can be used as a primer especially on concrete surfaces before application of polyurethane based waterproofing membranes and sealants like Akfix PUR 450.

4-Product Information

Packacking	15 kg metal can
Shelf Life	9 months
Storage Conditions	Store in cool and dry conditions between +5°C and +30°C

5-Technical Data

Physical Properties	Method/Conditions	Data
Chemical Base		Solvent Base Polyurethane
Density	ASTM D1875	1,00 ± 0,03 gr/ml
Appearance/Color		Liquid, Clear
Surface Curing	ASTM C679	2-3 hrs (23°C and %50 R.H.)
Ready for foot traffic*	ASTM C679	12-18 hrs (23°C and %50 R.H.)
Full Cure	--	4 days (23°C and %50 R.H.)
Shore A Hardness	ASTM D 2240	90 ± 5
Adhesion to Concrete	ASTM D 903	2,0 ± 0,3 N/mm ²
Heat Resistance	--	-20°C to +80°C
Application temperature	--	+5°C to +35 °C

6-Instructions

- The substrate must be clean, dry and free of all contamination such as dirt, oil, grease, and coatings etc. which hinder an adhesion.
- The substrate must be sound and of sufficient strength. If in doubt, apply a test area first.
- Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.
- Polyurethane waterproofing membrane must be thoroughly mixed for 3 min in order to achieve a homogenous mix using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.
- Over mixing must be avoided to minimize air entrainment.
- By brush: With a thick haired brush.
- By roller: With a solvent resistant, "non-fuzzy" roller.
- By spray: Airless spray equipment, for example piston pump Wagner EP 3000. (pressure: ~ 200- 250 bar, nozzle: 0.38mm - 0.53mm, angle: ca. 50 - 80°).

7-Safety

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

8-Important

- The surface must be clean, dry and bearing and free of any residual material and movable parts that would prevent adhesion.
- Old coatings, oil and dust must be fully removed from the surface. Sharp points should be covered; areas that are suitable for cracking such as vertical/horizontal joints should be angled.
- Open a V-shape section at the area there are cracks on the surface and fill with polyurethane sealant.
- Wait minimum 28 days for fresh concretes
- For a single layer of application, 200-250 g/m² is recommended. If you are not sure of the floor strength, we recommend applying two-layer of Primer.
- Primer ensures a reliable and sound application of PU waterproofing coating.
- Primer is applied by a brush or roller until the whole surface is covered. For larger spaces, it is possible to apply by spraying with an airless pump.
- Clean all tools and application equipment with thinner immediately after use. Hardened and/or cured material can only be removed mechanically.